



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



Publication number: **0 318 197 A3**

(12)

## EUROPEAN PATENT APPLICATION

(21) Application number: 88310756.7

(51) Int. Cl.<sup>5</sup>: C08F 8/48, C08F 8/32

(22) Date of filing: 15.11.88

(30) Priority: 23.11.87 US 123683

(43) Date of publication of application:  
31.05.89 Bulletin 89/22

(84) Designated Contracting States:  
AT BE CH DE ES FR GB IT LI LU NL SE

(96) Date of deferred publication of the search report:  
02.01.91 Bulletin 91/01

(71) Applicant: ROHM AND HAAS COMPANY  
Independence Mall West  
Philadelphia Pennsylvania 19105(US)

(72) Inventor: Hallden-Abberton, Michael Paul  
964 Whitney Lane  
Maple Glen Pennsylvania 19002(US)  
Inventor: Cohen, Leslie Alan  
2550 Creek Road  
Langhorne Pennsylvania 19047(US)  
Inventor: Wood, Robert Stewart  
221 Heron Place  
Holland Pennsylvania 19866(US)

(74) Representative: Tanner, James Percival et al  
ROHM AND HAAS (UK) LTD. European  
Operations Patent Department Lennig House  
2 Mason's Avenue  
Croydon, Surrey, CR9 3NB(GB)

(54) A process of preparing glutaric-anhydride-containing copolymers.

(57) Thermoplastic copolymers of glutaric anhydride and (meth)acrylic esters are prepared free of acid groups by reacting a (meth)acrylic ester polymer with a secondary amine at from 150° to 400° C. Where the secondary amine is sufficiently volatile, any excess is removed at above 160° C and below 26.6 kPa. The copolymers are amorphous, soluble, non-crosslinked and low acid. They may be blended with other polymers, formed into plastic articles, or swelled with cross-linking agents.

EP 0 318 197 A3



European  
Patent Office

## EUROPEAN SEARCH REPORT

Application Number

EP 88 31 0756

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	CHEMICAL ABSTRACTS, vol. 104, 1986, page 16, abstract no. 169113r, Columbus, Ohio, US; & JP-A-60 210 606 (MITSUBISHI RAYON CO., LTD) 23-10-1985 " Abstract "	1	C 08 F 8/48 C 08 F 8/32
A	US-A-4 246 374 (R.M. KOPCHIK) " Claims 1-40 "	1	
D,A	EP-A-0 076 691 (ROHM AND HAAS) " Claims 1-10 "	1	
D,A	US-A-3 137 660 (J.F. JONES) " Claim 1 "	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			C 08 F
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		25 October 90	PERMENTIER W.A.
<b>CATEGORY OF CITED DOCUMENTS</b>			
X: particularly relevant if taken alone		E: earlier patent document, but published on, or after the filing date	
Y: particularly relevant if combined with another document of the same category		D: document cited in the application	
A: technological background		L: document cited for other reasons	
O: non-written disclosure		&: member of the same patent family, corresponding document	
P: intermediate document			
T: theory or principle underlying the invention			